This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently amended) A photo-catalyst containing titanium fluoride nitride comprising, $Ti(^{IV})O_aN_bF_c$ or a compound represented by $MeTi(^{IV})O_aN_bF_c$ prepared by doping at least one metal Me selected from the group consisting of ~~alkalis or alkali~~ alkali or alkaline earth metals on $Ti(^{IV})O_aN_bF_c$, wherein[.], $_b$ is 0.1 to 1, $_c$ is 0.1 to 1 and $_a$ is a value to maintain $Ti(^{IV})$ and is decided in relation to $_b$ and $_c$.

2. (Original) The photo-catalyst containing titanium fluoride nitride of claim 1 to which at least one promoter selected from the group consisting of Pt, Ni and Pd is loaded.

3. (Original) The photo-catalyst containing titanium fluoride nitride of claim 1, wherein $Ti(^{IV})O_aN_bF_c$ possesses anataze structure and $MeTi(^{IV})O_aN_bF_c$ possesses perovskite to anataze structure.

4. (Original) The photo-catalyst containing titanium fluoride nitride of claim 3 to which at least one promoter selected from the group consisting of Pt, Ni and Pd is loaded.

5. (Currently amended) A photo-catalyst for water splitting containing titanium fluoride nitride comprising, $Ti(^{IV})O_aN_bF_c$ or a compound represented by $MeTi(^{IV})O_aN_bF_c$ prepared by doping at least one metal Me selected from the from the group consisting of alkali or ~~alkali~~ alkaline earth metals on $Ti(^{IV})O_aN_bF_c$, wherein[.], $_b$ is 0.1 to 1, $_c$ is 0.1 to 1 and $_a$ is a value to maintain $Ti(^{IV})$ and is decided in relation with $_b$ and $_c$.

6. (Original) The photo-catalyst for water splitting containing titanium fluoride nitride of claim5 to which at least one promoter selected from the group consisting of Pt, Ni, Ru and Pd is loaded.

7. (Currently amended) The photo-catalyst for water splitting containing titanium fluoride nitride of ~~claim5~~ claim 5, wherein $Ti(^{IV})O_aN_bF_c$ possesses anataze structure and $MeTi(^{IV})O_aN_bF_c$ possesses perovskite to anataze structure.

8. (Original) The photo-catalyst for water splitting containing titanium fluoride nitride of claim 7 to which at least one promoter selected from the group consisting of Pt, Ni and Pd is loaded.

9. (Currently amended) A method for preparation of a photo-catalyst represented by $Ti(^{IV})O_aN_bF_c$, ~~wherein a, b and c are same as to claim 1~~ by baking titanium di-

ammonium fluoride halide represented by $(HH_4)_2TiF_dX_{6-d}$, wherein, d is integer of 1-6, which contains at least F and ammonium halide by the ratio of equimolar or by the ratio of slightly excess of ammonium halide at the maximum temperature from 200℃ to 500℃ so as to form a starting material, then said starting material is nitrogenated by thermal synthesis in ammonia atmosphere containing from 0.02% to 10.00% of oxygen, air or water to ammonia by reduced mass to oxygen atom at the maximum temperature from 350℃ to 700℃ for over than 5 hours.

10. (Currently amended) A method for preparation of a photo-catalyst represented by $SrTi(^{IV})O_aN_bF_c$, wherein, a, b and c are same as to claim 1, by baking titanium di-ammonium fluoride halide represented by TiF_xX_{6-x} and/or $(HH_4)_2TiF_dX_{6-d}$, wherein x and d are integer of 1-6, which contains at least F and at least one compound selected from the group consisting of SrO, SrOH and SrX so as to form a starting material or $SrTiF_6$, then said starting material or $SrTiF_6$ is nitrogenated by thermal synthesis in ammonia atmosphere containing from 0.02% to 10.00% of oxygen, air or water to ammonia by reduced mass to oxygen atom at the maximum temperature from 350℃ to 700℃ for over than 5 hours.